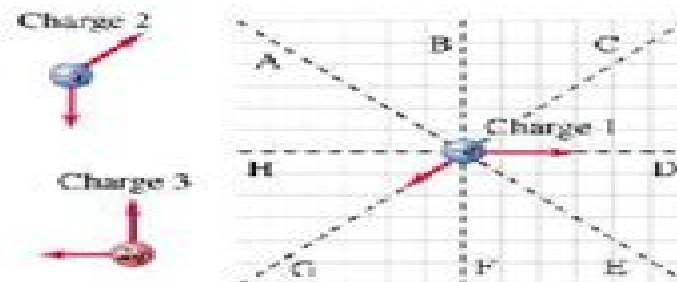


[Assignment View 1](#)**PH2200 University Physics II Electricity & Magnetism****Homework 1 - Chapter 26 (22 points)****Due at 11:00pm on Thursday, January 22, 2009**[View Grading Details](#)**Placing Charges Conceptual Question**

Below are free-body diagrams for three electric charges that lie in the same plane. Their relative positions are unknown.

**Part A**

Along which of the lines (A to H) in the figure should charge 2 be placed so that the free-body diagrams of charge 1 and charge 2 are consistent?

**Hint A.1 How to approach the problem**

Newton's 3rd law states that the forces exerted by a pair of objects on each other are always equal in magnitude and opposite in direction. Identifying the forces that correspond to 3rd-law pairs in the free-body diagrams will enable you to place the particles in their proper relative position.

**Hint A.2 Placing Charge 2**

The two forces acting on charge 2 correspond to the forces exerted on it by charge 1 and charge 3. This means that one of these forces must pair with a force on charge 1 of equal magnitude and opposite direction and the other must pair with a force on charge 3 of equal magnitude and opposite direction. Also note that charge 2 should be repelled by charge 1, since both are negative. Therefore, the vector that represents the force of charge 1 on charge 2 must point away from charge 1. This information is all you need to place charge 2 in its correct position.

ANSWER:

C

**Part B**

Along which of the lines (A to H) in the figure should charge 3 be placed so that the free-body diagrams of charge 1, charge 2, and charge 3 are consistent?



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**Scott C. Dulebohn**



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Vladimir I. Gavrilenko, Volodymyr S. Ovechko, 2023-10-19 This textbook showcases the rapidly developing field of materials optics It is aimed at a broad audience as the readers require only university entry level knowledge of physics chemistry and optics It overviews the basics of optical engineering and the typical and widely used applications of materials optics with the first general chapters corresponding to the standard university courses targeting bachelor's and master's degrees in physics The next few chapters present the modern developments in materials optics such as nano plasmonics nano photonics and optical properties of nano sized materials intended for readers familiar with the basic elements of quantum mechanics Some more specialized chapters address recent developments in fields such as optics of solid surfaces plasma optics optics of composites alloys and metamaterials optics of anisotropic materials optics of organic and biological materials and relativistic effects in optics The appendices present a more advanced description of selected topics with important reference materials subject index and extended list of publications as well as numerous examples and problems to better orient readers

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